



Glenn Research Center



# Droplet Combustion Experiment (DCE)

## Study of Spherical Droplets Burning without Gravity Effects



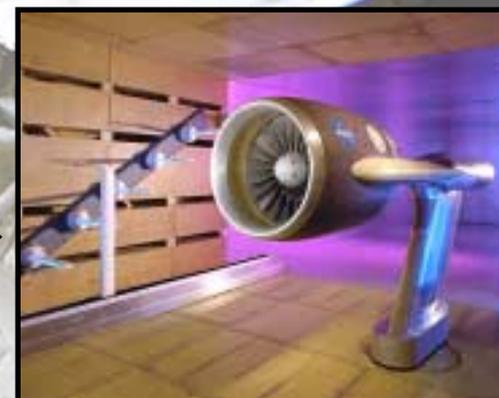
Large droplet burning in normal gravity



Large droplet burning in microgravity



Excited OH radicals imaged in microgravity



Practical combustors depend on knowledge of droplet combustion

Droplets in practical, normal gravity systems are spherical but microscopic:

- Difficult to observe and measure
- Unaffected by gravity